

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P573600

Luminaire Tested: **ARCH-S-PA2-90-830-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-90-830-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7008 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

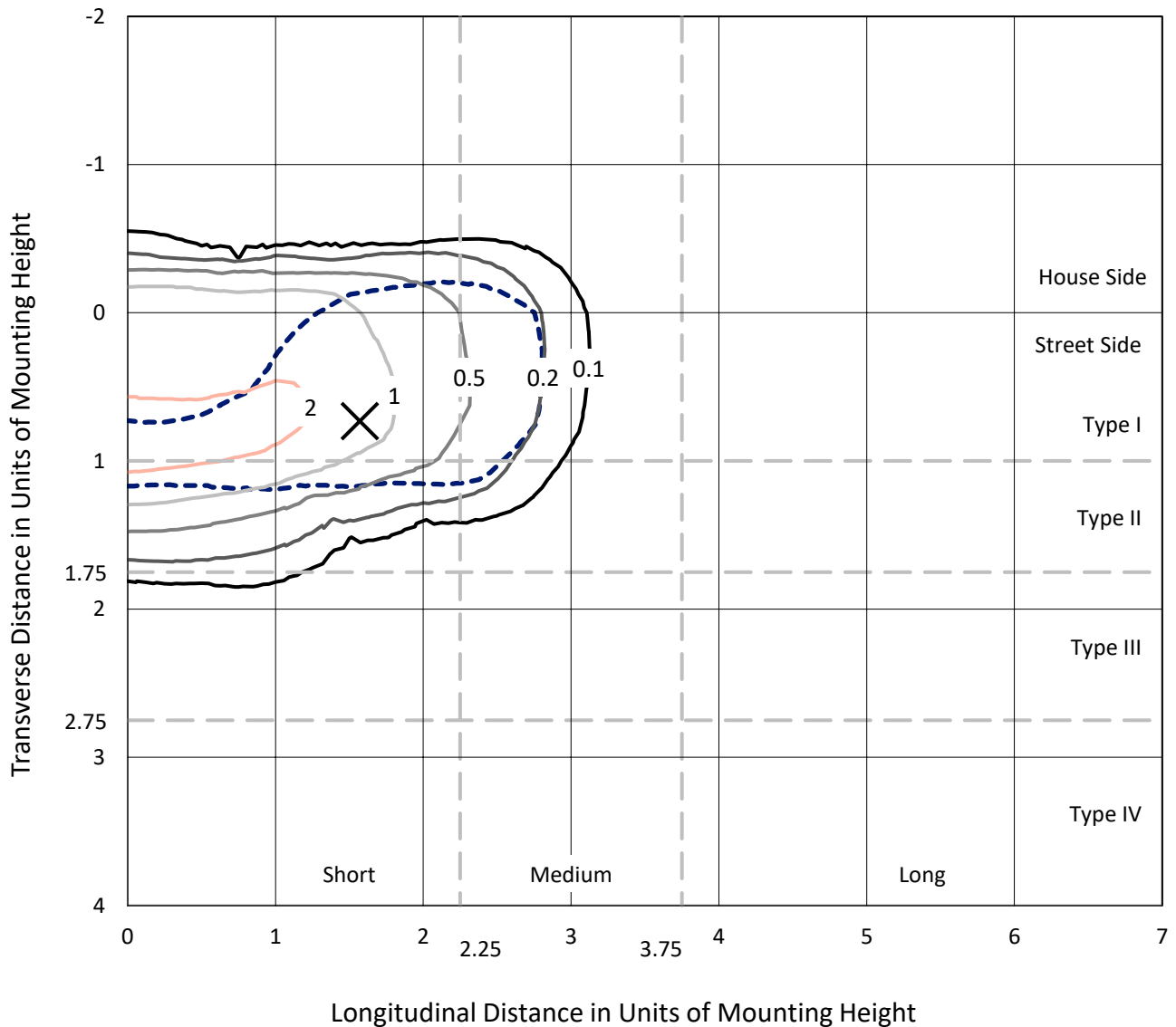
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

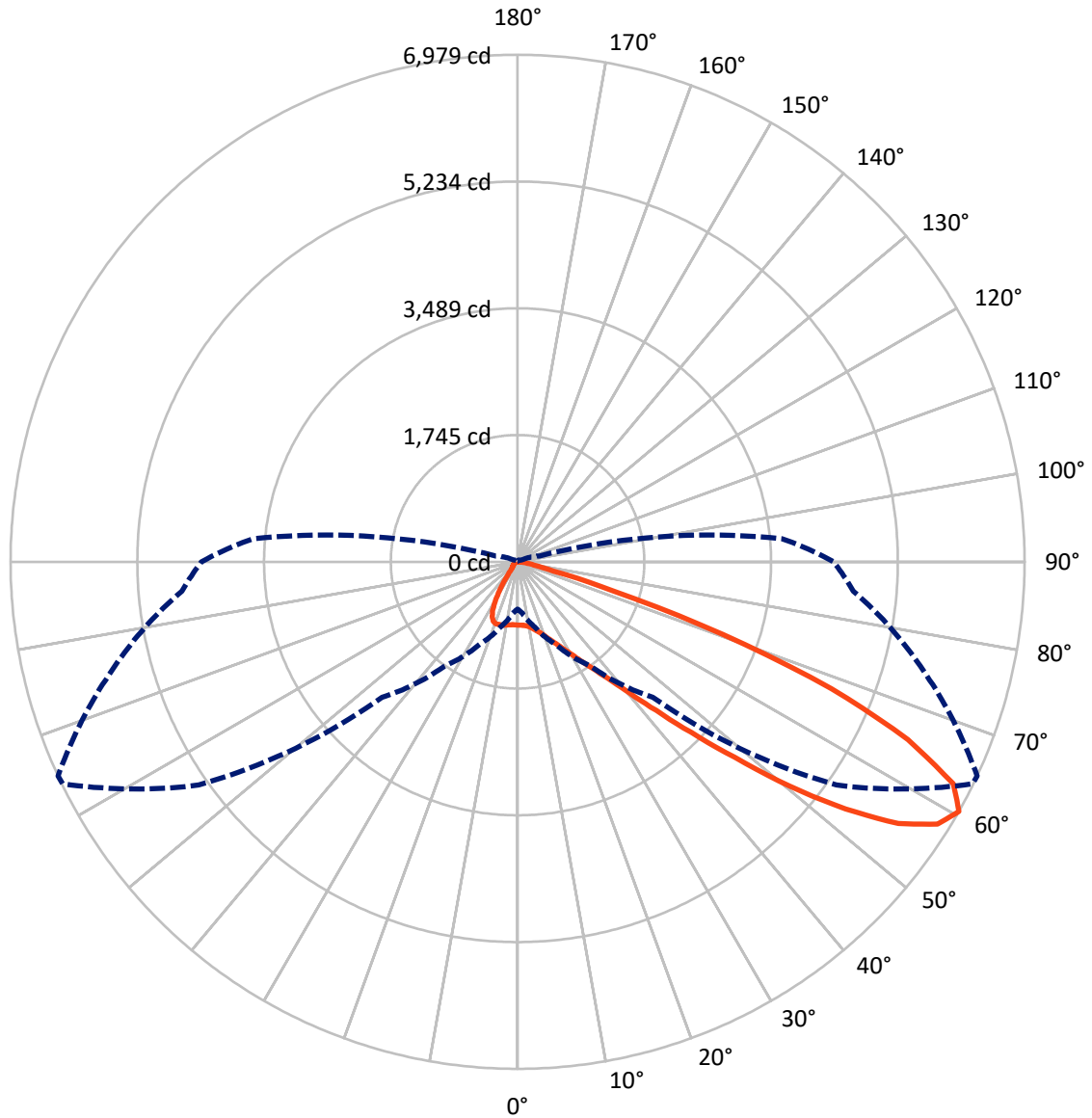
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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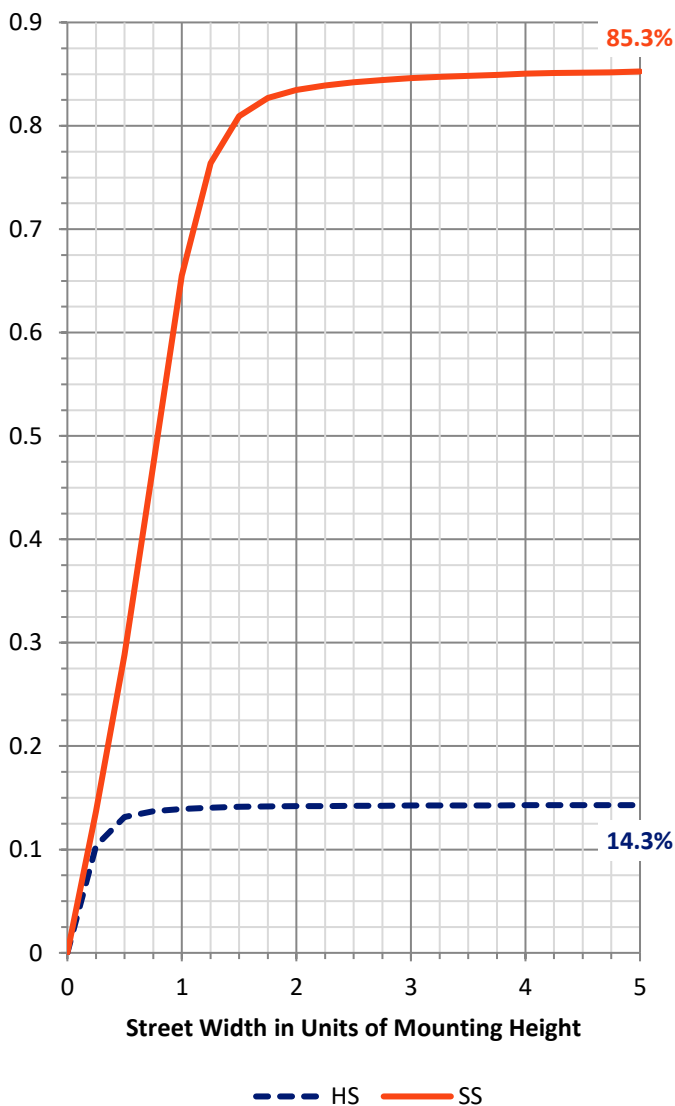
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1014.6	0.0	1014.6
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	5993.4	0.0	5993.4
	% Fixture	85.5	0.0	85.5
Total	Lumens	7008.0	0.0	7008.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	1.2
10°-20°	234.1	3.3
20°-30°	397.6	5.7
30°-40°	820.5	11.7
40°-50°	1650.1	23.5
50°-60°	2019.3	28.8
60°-70°	1428.5	20.4
70°-80°	344.3	4.9
80°-90°	31.1	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7008.0	100.0
0°-180°	7008.0	100.0

Coefficient of Utilization



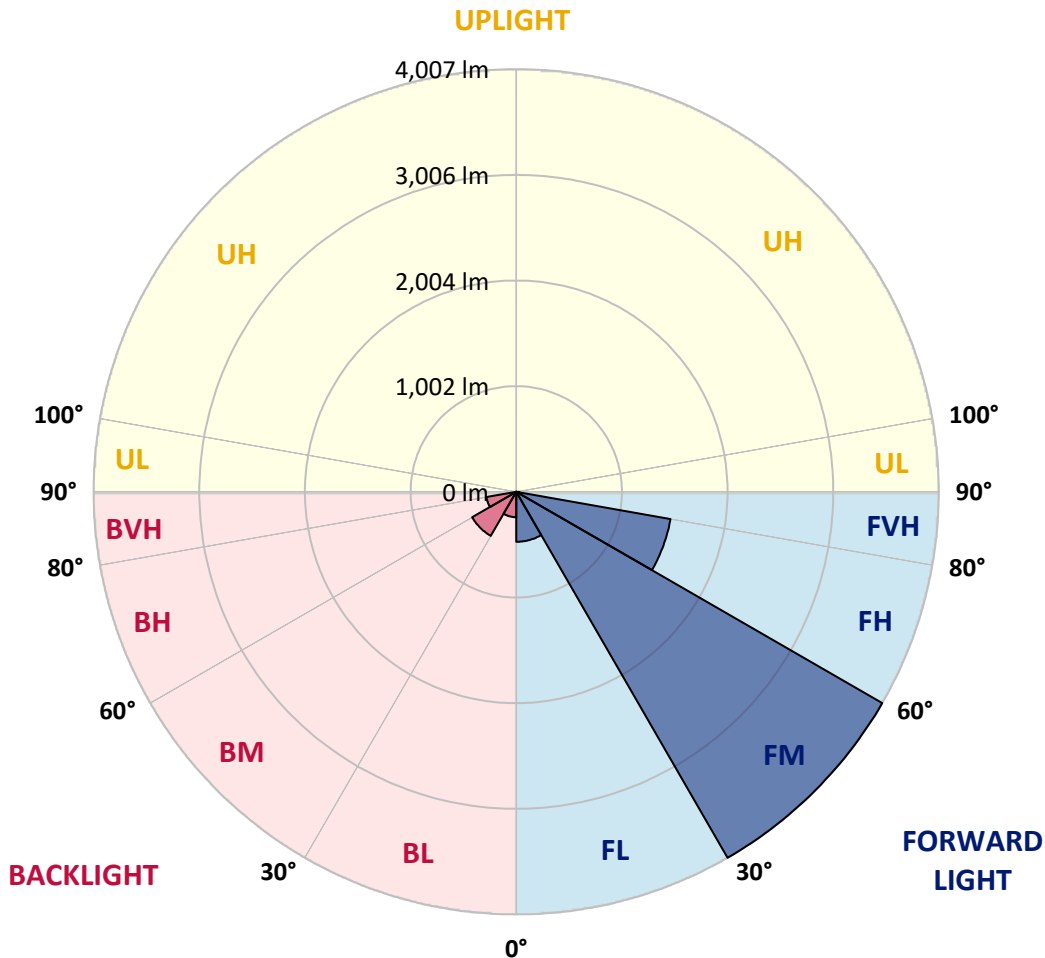
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	473.7	6.8			
FM (30°-60°)	4007.5	57.2			
FH (60°-80°)	1485.2	21.2			G1/1800
FVH (80°-90°)	27.1	0.4			G1/100
BL (0°-30°)	240.5	3.4	B1/500		
BM (30°-60°)	482.4	6.9	B1/1000		
BH (60°-80°)	287.6	4.1	B1/500		G1/500
BVH (80°-90°)	4.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0
2.5°	875.8	873.0	873.0	873.0	875.8	875.8	878.5	873.0	873.0	873.0	873.0
5°	870.3	867.5	867.5	870.3	873.0	873.0	878.5	878.5	878.5	881.3	881.3
7.5°	881.3	875.8	875.8	878.5	881.3	881.3	886.8	889.6	889.6	895.1	897.9
10°	895.1	892.4	892.4	897.9	903.4	903.4	911.7	911.7	911.7	917.2	920.0
12.5°	914.5	911.7	911.7	920.0	928.3	933.8	939.3	942.1	944.9	944.9	944.9
15°	942.1	939.3	939.3	947.6	958.7	972.5	980.8	980.8	986.3	983.5	972.5
17.5°	980.8	978.0	980.8	986.3	1000.1	1013.9	1030.5	1033.3	1030.5	1025.0	1008.4
20°	1044.3	1036.0	1041.5	1055.4	1055.4	1063.6	1085.8	1094.0	1096.8	1080.2	1049.8
22.5°	1110.6	1110.6	1116.1	1132.7	1121.7	1132.7	1152.1	1165.9	1171.4	1157.6	1107.9
25°	1234.9	1240.5	1232.2	1226.7	1199.0	1204.5	1229.4	1257.0	1257.0	1246.0	1174.2
27.5°	1508.4	1502.9	1444.9	1364.8	1293.0	1298.5	1323.3	1359.3	1362.0	1337.2	1240.5
30°	1900.8	1906.3	1793.0	1610.7	1453.2	1411.8	1439.4	1480.8	1486.3	1444.9	1326.1
32.5°	2514.1	2467.1	2257.1	2014.0	1718.4	1569.2	1580.3	1624.5	1641.1	1605.1	1461.5
35°	3307.0	3196.5	2881.5	2580.4	2152.2	1851.0	1765.4	1812.3	1820.6	1801.3	1630.0
37.5°	3779.4	3691.0	3486.6	3213.1	2710.2	2226.8	2008.5	2055.5	2047.2	2008.5	1798.5
40°	4072.3	4022.5	3912.0	3784.9	3464.5	2818.0	2409.1	2370.4	2373.2	2317.9	2072.0
42.5°	4238.0	4193.8	4152.4	4185.5	4091.6	3889.9	2989.3	2812.5	2795.9	2690.9	2389.8
45°	4246.3	4180.0	4229.7	4423.1	4572.3	4840.3	3746.3	3337.4	3345.7	3171.6	2784.8
47.5°	3928.6	3876.1	4019.8	4398.3	4892.8	5461.9	4627.6	4055.7	4017.0	3674.4	3185.4
50°	3301.5	3298.7	3489.3	4025.3	4892.8	5782.4	5572.4	4898.3	4856.9	4199.3	3550.1
52.5°	2613.5	2666.0	2795.9	3304.2	4442.5	5752.0	6268.6	5768.6	5652.5	4666.2	3854.0
55°	2033.4	2014.0	2171.5	2522.4	3522.5	5227.1	6495.2	6453.7	6357.0	5080.7	4122.0
57.5°	1248.8	1320.6	1533.3	1845.5	2563.8	4110.9	6169.2	6870.9	6812.9	5467.4	4401.0
60°	649.2	704.5	933.8	1259.8	1751.6	2635.6	5354.2	6967.6	6978.6	5779.6	4638.6
62.5°	408.9	406.1	511.1	884.1	1127.2	1480.8	4157.9	6625.0	6730.0	6020.0	4865.2
65°	306.7	309.4	350.9	585.7	765.3	773.6	2467.1	5729.9	5903.9	6083.5	4942.5
67.5°	284.6	287.3	306.7	384.0	574.6	516.6	1085.8	4417.6	4660.7	5497.8	4644.1
70°	254.2	256.9	287.3	317.7	433.7	378.5	489.0	2660.5	2997.6	3989.4	3715.9
72.5°	198.9	204.4	240.4	301.1	323.2	287.3	339.8	1176.9	1373.1	2193.6	2127.3
75°	146.4	149.2	182.3	232.1	284.6	204.4	262.5	466.9	511.1	823.3	701.7
77.5°	102.2	102.2	127.1	174.1	237.6	143.7	187.9	251.4	256.9	306.7	201.7
80°	63.5	66.3	80.1	118.8	146.4	138.1	116.0	168.5	168.5	160.2	82.9
82.5°	35.9	38.7	55.3	80.1	99.5	93.9	74.6	96.7	99.5	102.2	47.0
85°	16.6	19.3	33.2	49.7	58.0	44.2	44.2	49.7	49.7	66.3	27.6
87.5°	2.8	2.8	16.6	22.1	19.3	22.1	22.1	27.6	27.6	33.2	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0
2.5°	870.3	870.3	870.3	867.5	867.5	864.7	859.2	859.2	859.2	859.2	862.0
5°	881.3	878.5	875.8	867.5	862.0	850.9	839.9	837.1	828.8	828.8	831.6
7.5°	895.1	895.1	886.8	873.0	859.2	839.9	820.5	806.7	792.9	790.1	787.4
10°	920.0	914.5	906.2	881.3	859.2	828.8	798.4	762.5	734.9	721.1	715.5
12.5°	939.3	936.6	920.0	892.4	856.4	809.5	740.4	657.5	591.2	555.3	555.3
15°	967.0	961.4	936.6	897.9	848.2	737.6	596.7	469.7	397.8	359.2	353.6
17.5°	994.6	983.5	953.1	900.6	812.2	607.8	417.2	301.1	251.4	232.1	226.5
20°	1027.7	1008.4	964.2	903.4	723.8	442.0	270.7	201.7	182.3	174.1	176.8
22.5°	1071.9	1038.8	975.2	886.8	591.2	287.3	190.6	163.0	151.9	143.7	143.7
25°	1127.2	1080.2	994.6	839.9	428.2	193.4	151.9	135.4	124.3	118.8	116.0
27.5°	1176.9	1118.9	1013.9	757.0	273.5	151.9	127.1	113.3	102.2	99.5	96.7
30°	1243.2	1163.1	1033.3	624.4	179.6	124.3	107.7	93.9	85.6	82.9	82.9
32.5°	1356.5	1248.8	1069.2	475.2	135.4	107.7	91.2	80.1	74.6	71.8	71.8
35°	1489.1	1353.7	1099.6	331.5	116.0	91.2	77.4	69.1	66.3	63.5	63.5
37.5°	1627.2	1478.1	1105.1	210.0	102.2	80.1	69.1	63.5	58.0	58.0	58.0
40°	1875.9	1696.3	1080.2	140.9	88.4	71.8	60.8	58.0	52.5	52.5	52.5
42.5°	2166.0	1961.5	1016.7	113.3	80.1	63.5	58.0	52.5	47.0	47.0	44.2
45°	2541.7	2262.7	908.9	99.5	71.8	58.0	52.5	47.0	44.2	41.4	41.4
47.5°	2895.3	2605.3	806.7	88.4	66.3	55.3	47.0	41.4	38.7	38.7	38.7
50°	3232.4	2867.7	687.9	82.9	60.8	52.5	44.2	38.7	35.9	33.2	33.2
52.5°	3475.5	3074.9	577.4	74.6	55.3	47.0	41.4	35.9	30.4	27.6	27.6
55°	3746.3	3284.9	478.0	66.3	52.5	44.2	35.9	30.4	24.9	22.1	22.1
57.5°	4050.2	3489.3	386.8	60.8	49.7	38.7	30.4	24.9	19.3	16.6	16.6
60°	4351.3	3652.3	309.4	55.3	44.2	35.9	27.6	19.3	13.8	11.1	11.1
62.5°	4652.4	3762.8	237.6	49.7	41.4	30.4	22.1	13.8	8.3	5.5	5.5
65°	4776.8	3732.4	176.8	44.2	35.9	24.9	19.3	13.8	8.3	5.5	5.5
67.5°	4431.4	3356.7	124.3	44.2	33.2	24.9	16.6	11.1	5.5	2.8	2.8
70°	3458.9	2591.4	91.2	44.2	33.2	24.9	16.6	11.1	5.5	2.8	2.8
72.5°	1961.5	1442.1	69.1	38.7	30.4	22.1	16.6	11.1	5.5	2.8	2.8
75°	699.0	464.1	52.5	35.9	27.6	19.3	16.6	11.1	5.5	2.8	2.8
77.5°	168.5	118.8	41.4	30.4	24.9	19.3	13.8	11.1	8.3	2.8	2.8
80°	69.1	49.7	33.2	24.9	19.3	16.6	13.8	11.1	5.5	2.8	2.8
82.5°	30.4	24.9	13.8	13.8	11.1	11.1	11.1	11.1	5.5	2.8	2.8
85°	13.8	11.1	5.5	5.5	2.8	2.8	2.8	5.5	5.5	2.8	2.8
87.5°	8.3	5.5	5.5	5.5	2.8	2.8	2.8	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)